

## SAMPLING AND ANALYSIS REPORT FACILITY 177

# BASE REALIGNMENT AND CLOSURE ZONE D, INDUSTRIAL AND FLIGHT LINE AREA

### NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA

**Unit Identification Code N60200** 

Contract No. N62467-89-D-0317/090

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### **GLOSSARY**

ABB-ES ABB Environmental Services, Inc.

BRAC Base Realignment and Closure

EBS environmental baseline survey ELCR excess lifetime cancer risk

FDEP Florida Department of Environmental Protection

HQ hazard quotient

NAS Naval Air Station

PCB polychlorinated biphenyl PRE preliminary risk evaluation

RBC risk-based concentration

SCTL soil cleanup target level

TRPH total recoverable petroleum hydrocarbons

USEPA U.S. Environmental Protection Agency

### 1.0 INTRODUCTION

Harding Lawson Associates has completed the Phase II Sampling and Analysis program for Facility 72, at Naval Air Station (NAS) Cecil Field. This report summarizes the field operations, results, conclusions, and recommendations.

Facility 177 is referenced in the Base Realignment and Closure (Act) Environmental Baseline Survey (EBS) Report (ABB Environmental Services, Inc. [ABB-ES], 1994a) as the Arresting Gear Building, and is located at the edge of the eastwest taxiway approximately 250 feet southwest of Building 82 (Figure 1). Facility 177 is a quonset hut with a concrete floor approximately 100 feet by 40 feet in size, constructed in 1943. It is used to store aircraft arresting gear reels and equipment, maintenance supplies, and tools. In addition, large quantities of drummed hydraulic oil and antifreeze are stored inside the building.

The building is surrounded by concrete and asphalt pavement except to the west, where the surface soil is exposed and thinly vegetated. A small petroleum, oil, and lubricant accumulation point and several flammable materials lockers are located a few feet south of the building on an asphalt apron. West of the petroleum, oils, and lubricant accumulation point, the ground is unpaved and planted over with grass. Line Shack 302 LN is adjacent to the west side of the building. The South Fuel Farm and Day Tank 2 (jet fuel tank) are approximately 800 feet northwest of Building 177.

Facility 177 was color-coded Gray in the EBS because of the potential for discharge of contaminants from arresting gear fluid maintenance activities, extensive areas of stressed vegetation west of Building 177 and the historical storage of large quantities of oils and solvents. Evidence of disposal of sandblasting grit was also observed in a subsequent site walkover.

A more detailed description of environmental concerns is presented in the Environmental Baseline Survey Report (ABB-ES, 1994a), and the Sampling and Analysis Outline for the assessment of surface soil at Facility 177 (ABB-ES 1995a).

#### 2.0 PHASE II INVESTIGATION

The Phase II investigation initially included the collection and analysis of eight surface soil samples (35S00101 through 35S00801) to evaluate the potential for surface soil contamination in the area of stressed vegetation (Figure 2). One of the samples was located in an area where used blast media was observed. The samples were collected from 0 to 1 foot below land surface and were analyzed for target compound list organics, pesticides and polychlorinated biphenyl (PCBs), target analyte list inorganics, and total recoverable petroleum hydrocarbons (TRPH).

Twelve additional surface soil samples were subsequently collected and analyzed for specific contaminants detected during the initial sampling event (Figure 2). Sample 35S00901 was analyzed for benzo(a)pyrene and TRPH. Samples 35S01001 through 35S01201 were analyzed for benzo(a)pyrene only. Samples 35S01301 through

Not to scale

**LEGEND** Fence

NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA



SCALE: 1 INCH = 200 FEET

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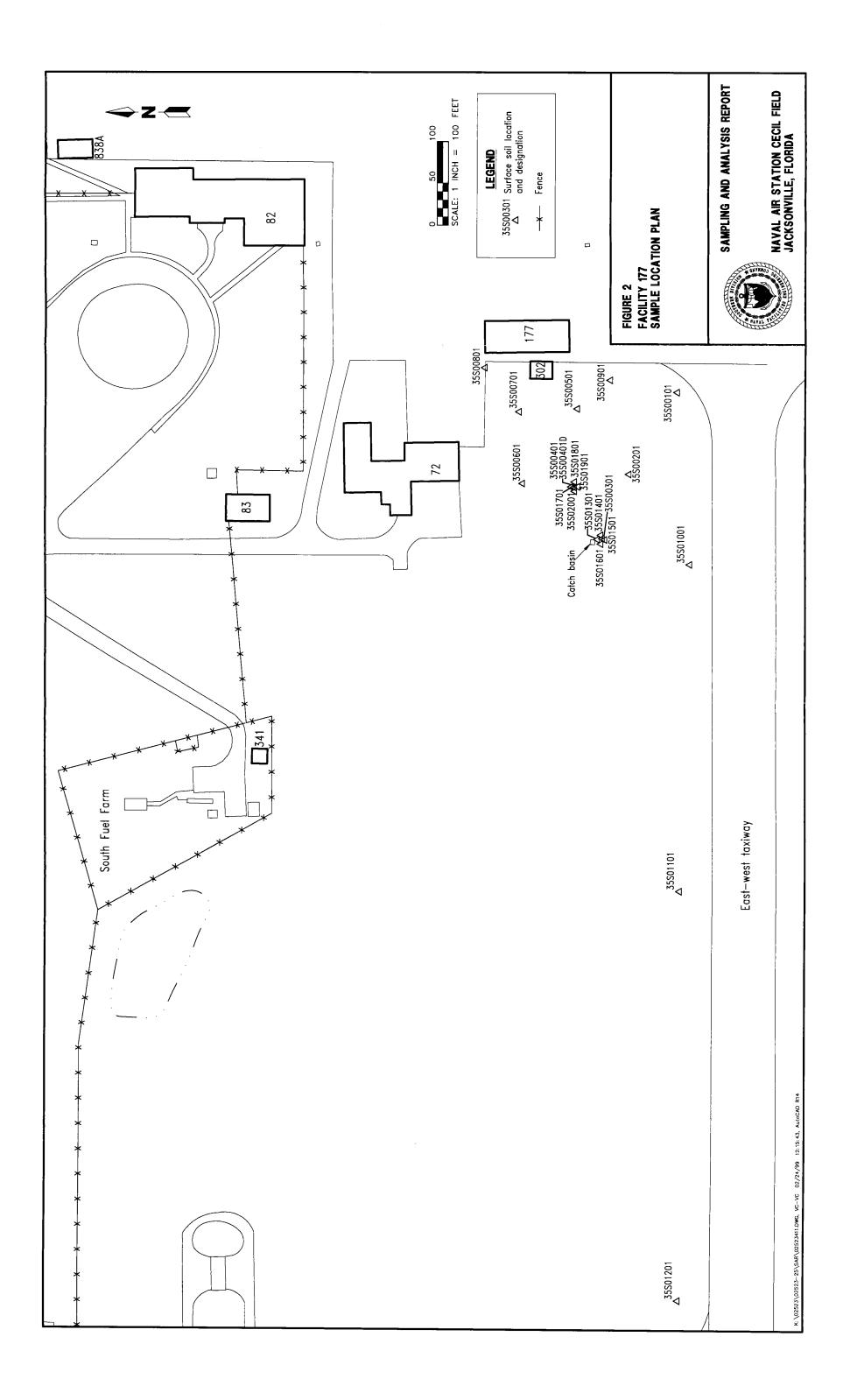
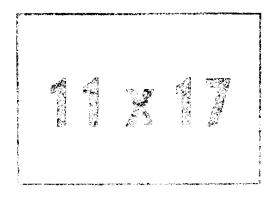


Figure 2 Facility 177, Sample Location Plan



35S02001 were analyzed for arsenic, based upon a misinterpretation of results of analyses on the initial samples. Arsenic is not a contaminant of concern at the locations sampled.

Field activities were undertaken in general conformance with the Project Operations Plan (ABB-ES, 1994b). A site plan indicating the locations of soil samples is presented on Figure 1.

### 3.0 PUBLIC HEALTH PRELIMINARY RISK EVALUATION

A preliminary risk evaluation (PRE) was conducted to assess potential risks to human and ecological receptors posed by contaminants in surface soil. Primary exposure pathways were evaluated to determine which potentially contribute to human health and ecological risks. The evaluation was conducted in general conformance with methodology provided in the U.S. Environmental Protection Agency (USEPA) Region IV Memorandum "Amended Guidance on Preliminary Risk Evaluations (PREs) for the Purpose of Reaching a Finding of Suitability to Lease (FOSL)" (USEPA, 1994), USEPA Region IV bulletins on ecological risk assessment (USEPA, 1995), and minutes of meetings with the USEPA and the Florida Department of Environmental Protection (FDEP) concerning PREs (ABB-ES, 1995b).

3.1 PUBLIC HEALTH PRE. All detected analytes were compared to readily available risk-based screening values to assess the likelihood of adverse human health effects associated with potential exposure to surface soil. Risk-based screening values were obtained from USEPA Region III Risk-Based Concentrations (RBCs) (USEPA, 1998), and FDEP soil cleanup target levels (SCTL) (FDEP, 1998). Most screening values published in the references listed above are based on toxicity constants and standard human exposure scenarios, and correspond to fixed levels of risk. The designated level of risk for noncarcinogenic chemicals is based on a hazard quotient (HQ) of 1. The level of risk for carcinogenic chemicals is based on an excess lifetime cancer risk (ELCR) of  $1\times10^{-6}$ . Cancer and noncancer risks associated with industrial and residential land use are estimated by dividing the maximum detected analyte concentration by the corresponding USEPA Region III RBC value at the designated level of risk (ELCR of  $1\times10^{-6}$  or HQ of 1).

Inorganic analytes were compared to NAS Cecil Field screening criteria for inorganics established by the NAS Cecil Field partnering team. The NAS Cecil Field screening criteria were determined by using the nonparametric upper-outside value cutoffs as described in *Understanding Robust and Exploratory Data Analysis* (Hoaglin et al., 1983). These screening values were developed from data collected throughout NAS Cecil Field. No risk evaluation was conducted for inorganic analytes detected below NAS Cecil Field screening criteria for inorganics.

Nineteen inorganic analytes, 3 volatile organic compounds, 22 semivolatile organic compounds, 9 pesticide compounds, and 1 PCB compound were detected in surface soil samples collected and analyzed for Facility 177. Polynuclear aromatic hydrocarbon compounds were detected at concentrations in excess of SCTLs at seven sample locations. TRPH was detected at a concentrations in excess of the SCTL at one location. No other compounds or analytes were detected at concentrations in excess of SCTLs. An ELCR of  $2.6\times10^{-5}$  was calculated for a potential surface soil exposure scenario at this facility. A comparison between

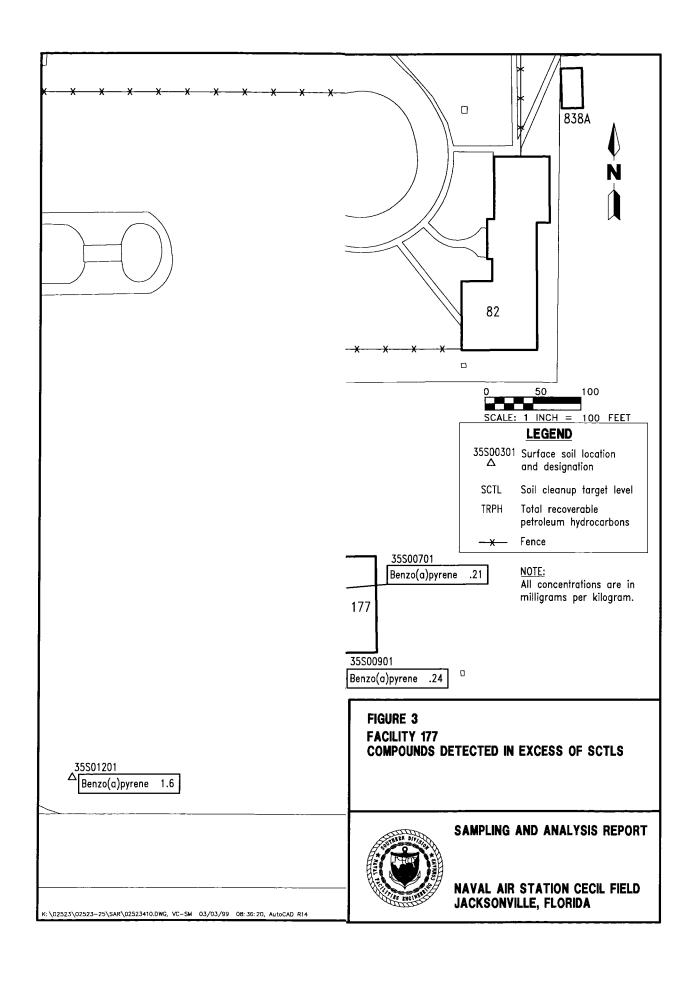


Figure 3 Facility 177, Compounds Detected in Excess of SCTLs



concentrations of detected analytes in surface soil and RBCs for surface soil and SCTLs is presented in Appendix A. Figure 3 presents contaminants exceeding the SCTLs.

### 4.0 CONCLUSIONS AND RECOMMENDATIONS

Contaminants have been detected at concentrations that exceed SCTLs for residential land use in surface soil samples collected in the vicinity of Facility 177. The extent of contaminants has not been delineated, and it is not been determined whether or not Facility 177 is the source of the contaminants. In addition, Facility 177 is within the area of investigation for Installation Restoration program Sites 36 and 37. Therefore, the color classification for Facility 72 should be changed to 5/Yellow until all additional requirements for evaluation and remediation of soil in the vicinity of Facility 177 and groundwater associated with Sites 36 and 37 have been completed.

### REFERENCES

- ABB Environmental Services, Inc. (ABB-ES). 1994a. Base Realignment and Closure Environmental Baseline Survey Report, Naval Air Station, Cecil Field, Jacksonville, Florida. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (November).
- ABB-ES. 1994b. Project Operations Plan for Cecil Field and Health and Safety Plan. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (December).
- ABB-ES. 1995a. Sampling and Analysis Outline, Facility 177, Base Realignment and Closure, Zone D, Industrial and Flightline Area, Group IV, Naval Air Station, Cecil Field, Jacksonville, Florida. Prepared for SOUTHNAVFACENGCOM (April).
- ABB-ES. 1995b. Minutes of September 25, 1995, conference call to discuss preliminary risk evaluations.
- Florida Department of Environmental Protection. 1998. Brownfields Cleanup Criteria Rule: Chapter 62-785, Florida Administrative Code. Tallahassee, Florida.
- Hoaglin, D.C., F. Mosteller, and J.W. Tukey. 1983. *Understanding Robust and Exploratory Data Analysis*. New York: John Wiley and Sons, Inc.
- U.S. Environmental Protection Agency (USEPA). 1994. Memorandum from USEPA Region IV. Subject: "Amended Guidance on Preliminary Risk Evaluations (PREs) for the Purpose of Reaching a Finding of Suitability to Lease (FOSL)." Atlanta, Georgia (December 20).
- USEPA. 1995. Supplemental Guidance to RAGS: Region IV Bulletin. "Ecological Risk Assessment, Bulletin No. 1." USEPA Waste Management Division. Atlanta, Georgia (November).
- USEPA. 1998. Region III Risk-Based Screening Table, Technical Guidance Manual. Risk Assessment. EPA/903/R-93-001 (May).

## APPENDIX A PRELIMINARY RISK EVALUATION TABLES

### Preliminary Human Health Risk Evaluation Table for Analytes Detected in Surface Soil Facility 177, Naval Air Station Cecil Field

	Maximum Detected				Calculated	Sample Location with Maximum Detected
	Concentration		Screening Val	<u>ues</u>	Risk Values <sup>2</sup>	Concentration
Analyte <sup>1</sup>		BKGRD	SCTL	RBC(R)	ELCR HQ	
2-Butanone	0.002		4800	47000 n		35S00501
Acetone	0.014		770	7800 n		35S00501
Tetrachloroethene	0.006		10	12 c		35S00801
2-Methylnaphthalene	0.044		1500	0		35S00401D
Acenaphthene	0.2		2200	4700 n		35S00401D
Acenaphthylene	0.32		1100	0		35S00101
Anthracene	0.74		19000	23000 n		35S00401D
Benzo (a) anthracene	1.6		1.4	0.88 с	1.8E-06	35S00401D
*Benzo (a) pyrene	1.6		0.1	0.088 с	1.8E-05	35S01201RE
*Benzo (b) fluoranthene	2		1.4	0.88 с	2.3E-06	35S00101
Benzo (g,h,i) perylene	1		2300	0		35S00101
Benzo (k) fluoranthene	0.86		15	8.8 c		35S00401D
Carbazole	0.55		53	32 c		35S00401D
Chrysene	1.6		140	88 c		35S00401D
Di-n-butylphthalate	0.068		110	7800 n		35S00501
'Dibenzo (a,h) anthracene	0.3		0.1	0.088 с	3.4E-06	35S00401D
Dibenzofuran	0.16		270	310 n		35S00401D
Fluoranthene	3		2800	3100 n		35S00401D
Fluorene	0.22		2100	3100 n		35S00401D
Indeno (1,2,3-cd) pyrene	0.83		1.5	0.88 c		35S00401D
Naphthalene	0.066		1000	3100 n		35S00401D
Phenanthrene	2.6		1900	0		35S00401D
Phenol	0.019		900	47000 n		35S00401
Pyrene	2.1		2200	2300 n		35S00401D
ois(2-Ethylhexyl) phthalate	0.36		75	46 c		35S00101
4,4-DDD	0.0045		4.5	2.7 c		35S00801
4,4-DDE	0.18		3.2	1.9 c		35S00401
4,4-DDT	0.19		3.2	1.9 c		35S00401
Aldrin	0.00049		0.06	0.038 c		35S00301
Aroclor-1260	0.50045		0.6	0.083 c		35S00301
Dieldrin	0.00019		0.07	0.003 c		35S00701
Endrin	0.0019		21	23 n		35S00701 35S00801
Heptachlor epoxide	0.00026		0.1	0.07 c		35S00801 35S00801
	0.00028		3	0.49 c		35S00801 35S00801
alpha-Chlordane			3			
gamma-Chlordane	0.0091	4422 5		1.8 c		35S00801
Aluminum	5080	4432.5		78000 n		35S00101
Arsenic	1.2	2.0375		0.43 c		35S00401D
Barium Cadanium	88.5	14.4		5500 n		35S00201
Cadmium	0.68	1.715		39 n		35S00801
Calcium	88900	9.44		200		35S00101
Chromium	14	7.75		390 n		35S00401D
Cobalt	1.5	3.11	4700	4700 n		35S00401D
Copper	6	5.965		3100 n		35S00401D
ron	2210	1486		23000 n		35S00401D
Lead	52.8	196.9				35\$00101
Vagnesium 	1060	328.65				35S00101
Manganese	79.2	21.95		1600 n		35S00101
Nickel	3.6	3.89		1600 n		35S00401D
Potassium	414	101.8				35S00401D
Silver	0.48	2.13		390 n		35S00301
Sodium	235	343				35S00401D
Vanadium	8			550 n		35S00401D
Zinc	90.2	36.5	23000	23000 n		35S00101
Cyanide	0.48	1.185	30	7300 n		35S00101
*Total petroleum hydrocarbons	1400		350			35S00101

#### Notes

BKGRD = NAS Cecil Field Inorganic Background Data Set

SCTL = Soil Cleanup Target Level, Chapter 62-785, Florida Administrative Code

RBC(R) = Risk-based Concentration (Residential), USEPA Region III, April 1998

<sup>&</sup>lt;sup>1</sup> All detected analytes are reported. Concentrations and screening values are expressed in mg/kg

<sup>&</sup>lt;sup>2</sup>ELCR and HQ are only calculated for analytes detected at concentrations in excess of BKGRD and SCTL

<sup>\* =</sup> Background screening criteria or SCTLs have been exceeded

c = carcinogenic risk

n = non-carcinogenic risk

ELCR = calculated excess lifetime cancer risk, based on RBC(R) values. (ELCR = detected concentration/RBC(R) \* 1 E-06)

 $HQ = calculated \ Hazard \ Quotient \ for \ non-carcinogenic \ analytes \ (HQ = detected \ concentration/RBC(R))$ 

### APPENDIX B ANALYTICAL LABORATORY DATA REPORT

				SURFACE S	IAS CECIL SOIL VO					51							
Lab Sample Number: Site Locator Collect Date:	VALUE	CECI 35s 07-	1T1N LBRAC2 00101 NOV-95 L UNITS	DL	VALUE	C1T1V CECILBRA 35S0020 07-NOV- QUAL UN	C2 )1 ·95	DL	VALUE	CECI 3580 07-1	1T1X LBRAC2 00301 NOV-95 L UNITS	DL	VALUE	CEC: 359 07-	C1T20 ILBRAC2 S00401 -NOV-95 AL UNITS	DL	
						-											
CLP VOLATILES 90-SOW																	
Chloromethane		11 U	ug/kg	11			3/kg	1		11 U	ug/kg	1		11 U	ug/kg	11	
Bromomethane		11 U	ug/kg	11			₃/kg	11		11 U	ug/kg	1		11 U	ug/kg	11	
Vinyl chloride		11 U	ug/kg	11			j/kg	1	The second of the second of	11 U	ug/kg	1		11 U	ug/kg	11	
Chloroethane		11 U	ug/kg	11			g/kg	11		11 U	ug/kg	1		11 U	ug/kg	11	
Methylene chloride		11 U	ug/kg	11			ı/kg	1		11 U	ug/kg	1		11 U	ug/kg	11	
Acetone		11 U	ug/kg	11	11	10 ug	g/kg	1		11 U	ug/kg	1	60	11 U	ug/kg	11	
Carbon disulfide		11 U	ug/kg	11	11	1 U ug	j/kg	1		11 U	ug/kg	1		11 U	ug/kg	11	
1,1-Dichloroethene		11 U	ug/kg	11	11	1 U ug	g/kg	1		11 U	ug/kg	. 1		11 U	ug/kg	11	
1.1-Dichloroethane		11 U	ug/kg	11	11	1 U ug	g/kg	1		11 U	ug/kg	1		11 U	ug/kg	11	
1,2-Dichloroethene (total)		11 U	ug/kg	11	11	1 U uş	j/kg	1		11 U	ug/kg	1		11 U	ug/kg	11	
Chloroform		11 U	ug/kg	11	1	1 U ug	j/kg	1		11 U	ug/kg	1		11 U	ug/kg	11	
1.2-Dichloroethane		11 U	ug/kg	11	11	1 U ug	j/kg	1		11 U	ug/kg	1	1	11 U	ug/kg	11	
2-Butanone		11 U	ug/kg	11	11	1 U ug	J/kg	1	J	11 U	ug/kg	. 1		11 U	ug/kg	11	
1,1,1-Trichloroethane		11 U	ug/kg	11	1.	1 U ug	/kg	1	l	11 U	ug/kg	1		11 U	ug/kg	11	
Carbon tetrachloride		11 U	ug/kg	11	1	1 U ug	ı/kg	1		11 U	ug/kg	1	1	11 U	ug/kg	11	
Bromodichloromethane		11 U	ug/kg	11	1	1 U ug	/kg	1		11 U	ug/kg	1		11 U	ug/kg	11	
1,2-Dichloropropane		11 U	ug/kg	11	1.	1 U ug	/kg	11		11 U	ug/kg	1	1	11 U	ug/kg	11	
cis-1,3-Dichloropropene		11 U	ug/kg	11	1.	1U ug	g/kg	11		11 U	ug/kg	1		11 U	ug/kg	11	
Trichloroethene		11 U	ug/kg	11	11	1 U ug	/kg	11	li i i i i i i i i i i i i i i i i i i	11 U	ug/kg	1	1	11 U	ug/kg	11	
Dibromochloromethane		11 U	ug/kg	11	11	1 U ug	/kg	1	l	11 U	ug/kg	1	1	11 U	ug/kg	11	
1,1,2-Trichloroethane		11 U	ug/kg	11	1	1 U ug	/kg	11		11 U	ug/kg	1	1	11 U	ug/kg	11	
Benzene		11 U	ug/kg	11	1	1 U uş	/kg	1		11 U	ug/kg	1	1	11 U	ug/kg	11	
trans-1,3-Dichloropropene		11 U	ug/kg	11	1		/kg	1		11 U	ug/kg	1	1	11 U	ug/kg	11	
Bromoform		11 U	ug/kg	11	1	1 U uĝ	i/kg	1	liiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	11 U	ug/kg	1	1	11 U	ug/kg	11	
4-Methyl-2-pentanone		11 U	ug/kg	11	11	10 u	/kg	1		11 U	ug/kg	1	1	11 U	ug/kg	11	
2-Hexanone		11 Ū	ug/kg	11			/kg	1	1	11 U	ug/kg	1	1	11 U	ug/kg	11	
Tetrachloroethene		11 Ū	ug/kg	11	1		/kg	1		11 U	ug/kg	1	1	11 U	ug/kg	11	
Toluene		11 U	ug/kg	11	1		/kg	11	1	11 U	ug/kg	1	1	11 U	ug/kg	11	
1,1,2,2-Tetrachloroethane		11 Ū	ug/kg	11	1		/kg	11		11 U	ug/kg	1	1	11 U	ug/kg	11	
Chlorobenzene		11 U	ug/kg	11			i/kg	1		11 U	ug/kg	1	1	11 U	ug/kg	11	
Ethylbenzene		11 U	ug/kg	11		,	/kg	1	1	11 U	ug/kg	1	1	11 U	ug/kg	11	
Styrene		11 U	ug/kg	11			g/kg	1		11 Ū	ug/kg	1		11 U	ug/kg	11	
Xylenes (total)		11 Ŭ	ug/kg	11			/kg	i -		11 Ŭ	ug/kg	1		11 Ū	ug/kg	11	
Ayranes (total)			45/ 5			. J u;	,	•									

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

SURFACE SOIL -- VOLATILES -- REQUEST NO. 10751

Lab Sample Number: Site Locator Collect Date:	VALUE	C1T21 CECILBRAC2 35S00401D 07-NOV-95 QUAL UNITS	DL	VALUE	CECII 3550 07-1	1T22 LBRAC2 00501 NOV-95 L UNITS	DL	VALUE	CECI 358 07-	1T23 LBRAC2 00601 NOV-95 L UNITS	DL	VALUE	35s0 07-N	T24 BRAC2 0701 OV-95 UNITS	DL	
CLP VOLATILES 90-SOW Chloromethane Bromomethane Winyl chloride Chloroethane Methylene chloride Acetone Carbon disulfide 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethane 2-Butanone 1,1,1-Trichloroethane Carbon tetrachloride Bromodichloromethane 1,2-Dichloropropane cis-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane Benzene trans-1,3-Dichloropropene Bromoform 4-Methyl-2-pentanone 2-Hexanone Tetrachloroethene Toluene 1,1,2,2-Tetrachloroethane Chlorobenzene Ethylbenzene Styrene Xylenes (total)  U = NOT DETECTED J = ESTIM/ UJ = REPORTED QUANTITATION R = RESULT IS REJECTED AND	LIMIT IS	U ug/kg	111 111 111 111 111 111 111 111 111 11		11   U   U   U   U   U   U   U   U   U	ug/kg		111 111 111 111 111 111 111 111 111 11	11 U 11 U 11 U 11 U 11 U 11 U 11 U 11 U	ug/kg	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11		ug/kg		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Lab Sample Number:

Site

Locator

C1T25 CECILBRAC2 35S00801 07-NOV-95 QUAL UNITS

Collect Date:

VALUE

DL

D VOLATILES OF SOL			
LP VOLATILES 90-SOW	11 U		11
Chloromethane	11 U	ug/kg ug/kg	11
Bromomethane	11 U		1.
Vinyl chloride		ug/kg	11
Chloroethane	11 U	ug/kg	100000000000000000000000000000000000000
Methylene chloride	11 U	ug/kg	11
Acetone	11 U	ug/kg	11
Carbon disulfide	11 U	ug/kg	11
1,1-Dichloroethene	11 U	ug/kg	11
1,1-Dichloroethane	11 U	ug/kg	11
1,2-Dichloroethene (total)	11 U	ug/kg	11
Chloroform	11 U	ug/kg	11
1,2-Dichloroethane	11 U	ug/kg	11
2-Butanone	11 U	ug/kg	11 11
1,1,1-Trichloroethane	11 U	ug/kg	
Carbon tetrachloride	11 U 11 U	ug/kg	11 11
Bromodichloromethane		ug/kg	AND A CONTRACTOR
1,2-Dichloropropane	11 U 11 U	ug/kg	11 11
cis-1,3-Dichloropropene		ug/kg	11
Trichloroethene	11 U 11 U	ug/kg	1
Dibromochloromethane		ug/kg	11
1,1,2-Trichloroethane	11 U 11 U	ug/kg	11
Benzene	11 0	ug/kg ug/kg	11
trans-1,3-Dichloropropene	11 U		11
Bromoform	11 U	ug/kg ug/kg	11
4-Methyl-2-pentanone 2-Hexanone	11 U	ug/kg ug/kg	11
Tetrachloroethene	6 J	ug/kg	11
Totuene	11 Ŭ	ug/kg	11
	11 U	ug/kg	11
1,1,2,2-Tetrachloroethane	11 0		11
Chlorobenzene	11 U	ug/kg	11
Ethylbenzene		ug/kg	11
Styrene	11 U 11 U	ug/kg	11
Xylenes (total)	11.0	ug/kg	11
			A. A. C.
U = NOT DETECTED J = I	ESTIMATED VALUE		
UJ = REPORTED QUANTIT	ATION LIMIT IS QUAL	IFIED AS	ESTIMATED
R = RESULT IS REJECTE			

Lab Sample Number: Site Locator Collect Date:	CECI 359 07-	1T1N LBRAC2 00101 NOV-95 L UNITS	DL	:	C1T1V ECILBRAC2 35S00201 07-NOV-95 QUAL UNITS	DL		C1T1X ECILBRAC2 35S00301 07-NOV-95 QUAL UNITS	DL	CEC 35 07	C1T20 ILBRAC2 S00401 -NOV-95 AL UNITS	DL
CLP SEMIVOLATILES 90-SOW									2.32			
Phenol	710 U	ug/kg	710	350		350	360		360	19 J	ug/kg	<b>37</b> 0
bis(2-Chloroethyl) ether	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	<b>37</b> 0
2-Chlorophenol	710 U	ug/kg	710	350	U ug/kg	350	360		360	370 U	ug/kg	370
1.3-Dichlorobenzene	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	370
1.4-Dichlorobenzene	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	370
1.2-Dichlorobenzene	710 U	ug/kg	710	350	U ug/kg	350	360	U ug/kg	360	370 U	ug/kg	370
2-Methylphenol	710 U	ug/kg	710	350	U ug/kg	350	360	ป ug/kg	360	370 U	ug/kg	370
2,2-oxybis(1-Chloropropane)	710 U	ug/kg	710	350	U ug/kg	350	360	U ug/kg	360	370 U	ug/kg	<b>37</b> 0
4-Methylphenol	710 U	ug/kg	710	350	U ug/kg	350	360	U ug/kg	360	370 U	ug/kg	370
N-Nitroso-di-n-propylamine	710 U	ug/kg	710	350	U ug/kg	350	360	U ug/kg	360	370 U	ug/kg	370
Hexachloroethane	710 U	ug/kg	710	350	U ug/kg	350	360	U ug/kg	360	370 U	ug/kg	<b>37</b> 0
Nitrobenzene	710 U	ug/kg	710	350	U ug/kg	350	360	U ug/kg	360	370 U	ug/kg	<b>37</b> 0
Isophorone	710 U	ug/kg	710	350		350	360	U ug/kg	360	370 U	ug/kg	<b>3</b> 70
2-Nitrophenol	710 U	ug/kg	710	350		350	360	U ug/kg	360	370 U	ug/kg	<b>37</b> 0
2,4-Dimethylphenol	710 Ū	ug/kg	710	350		350	360	U ug/kg	360	370 U	ug/kg	<b>37</b> 0
bis(2-Chloroethoxy) methane	710 U	ug/kg	710	350		350	360	U ug/kg	360	370 U	ug/kg	<b>37</b> 0
2,4-Dichlorophenol	710 Ŭ	ug/kg	710	350	U ug/kg	350	360		360	370 U	ug/kg	<b>37</b> 0
1,2,4-Trichlorobenzene	710 U	ug/kg	710	350		350	360	U ug/kg	360	370 U	ug/kg	<b>37</b> 0
Naphthalene	710 Ú	ug/kg	710	350		350	360		360	370 U	ug/kg	<b>37</b> 0
4-Chloroaniline	710 Ū	ug/kg	710	350		350	360		360	370 U	ug/kg	<b>37</b> 0
Hexachlorobutadiene	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	370
4-Chloro-3-methylphenol	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	370
2-Methylnaphthalene	710 Ŭ	ug/kg	710	350		350	360		360	370 U	ug/kg	370
Hexachlorocyclopentadiene	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	370
2,4,6-Trichlorophenol	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	370
2,4,5-Trichlorophenol	1700 U	ug/kg	1700	860		860	880		880	900 U	ug/kg	900
2-Chloronaphthalene	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	370
2-Nitroaniline	1700 U	ug/kg	1700	860		860	880		880	900 U	ug/kg	900
Dimethylphthalate	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	370
Acenaphthylene	320 J	ug/kg	700	350		350	360		360	27 J	ug/kg	<b>37</b> 0
2,6-Dinitrotoluene	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	<b>3</b> 70
3-Nitroaniline	1700 U	ug/kg	1700	860		860	880		880	900 U	ug/kg	900
Acenaphthene	46 J	ug/kg	700	350		350	360		360	34 J	ug/kg	370
2,4-Dinitrophenol	1700 U	ug/kg	1700	860		860	880		880	900 U	ug/kg	900
4-Nitrophenol	1700 U	ug/kg	1700	860		860	880		880	900 U	ug/kg	900
Dibenzofuran	710 U	ug/kg	710	350		350	360		360	24 J	ug/kg	370
2.4-Dinitrotoluene	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	370
Diethylphthalate	710 Ŭ	ug/kg	710	350		350	360		360	370 U	ug/kg	370
4-Chlorophenyl-phenylether	710 U	ug/kg	710	350		350	360		360	370 U	ug/kg	370
	47 J	ug/kg	700	350		350	360		360	35 J	ug/kg	370
Fluorene	1700 U	ug/kg	1700	860		860	880		880	900 U	ug/kg	900
4-Nitroaniline	1700 U	ug/kg	1700	860		860	880		880	900 U	ug/kg	900
4,6-Dinitro-2-methylphenol	710 U		710	350		350	360	Control of the Contro	360	370 U	ug/kg	370
N-Nitrosodiphenylamine	710 U	ug/kg ug/kg	710	350 350		350	360		360	370 U	ug/kg	370
4-Bromophenyl-phenylether	710 U		710	350 350		350	360		360	370 U	ug/kg	370
Hexachlorobenzene	710 U 1700 U	ug/kg	1700	860		860	880		880	900 U	ug/kg	900
Pentachlorophenol		ug/kg	700	38	• •	350	36		360	520	ug/kg	370
Phenanthrene	690 J	ug/kg		350		350	360		360	140 J	ug/kg	370 370
Anthracene	150 J	ug/kg	700	350 350		350 350	360		360	110 J	ug/kg	370 370
Carbazole	120 J	ug/kg	700 700	350 67		350 350	360		360	370 U	ug/kg ug/kg	370 370
Di-n-butylphthalate	54 J	ug/kg	7.00	67	J ug/kg	330	300	ug/kg		3,00	49/ 49	5,0

Lab Sample Number: Site Locator Collect Date:	CEC: 359 07	C1T1N ILBRAC2 S00101 -NOV-95 AL UNITS	DL	3! 01	C1T1V CILBRAC2 5S00201 7-NOV-95 JAL UNITS	DL	VALUE	C1T1X CECILBRAC2 35S00301 07-NOV-95 QUAL UNITS	DL	CEC 35 07	C1T20 ILBRAC2 S00401 -NOV-95 AL UNITS	DL
Fluoranthene	1600	ug/kg	700	140 J	ug/kg	350	86	J ug/kg	360	770	ug/kg	370
Pyrene	1300	ug/kg	700	120 J		350	65	J ug/kg	360	560	ug/kg	370
Butylbenzylphthalate	710 U	ug/kg	710	350 U	ug/kg	350	360	U ug/kg	360	370 U	ug/kg	370
3.3-Dichlorobenzidine	710 U	ug/kg	710	350 U	ug/kg	350	360	U ug/kg	360	370 U	ug/kg	370
Benzo (a) anthracene	900	ug/kg	700	110 J	ug/kg	350	38	J ug/kg	360	410	ug/kg	370
Chrysene	1200	ug/kg	700	160 J	ug/kg	350	53	J ug/kg	360	390	ug/kg	370
bis(2-Ethylhexyl) phthalate	360 J	ug/kg	700	50 J	ug/kg	350	44	J ug/kg	360	51 J	ug/kg	370
Di-n-octylphthalate	710 U	ug/kg	710	350 U	ug/kg	350	360	U ug/kg	360	370 U	ug/kg	370
Benzo (b) fluoranthene	2000	ug/kg	700	270 J	ug/kg	350	48	J ug/kg	360	580	ug/kg	370
Benzo (k) fluoranthene	650 J	ug/kg	700	100 J	ug/kg	350	26	J ug/kg	360	170 J	ug/kg	370
Benzo (a) pyrene	1200	ug/kg	700	210 J	ug/kg	350	37	J ug/kg	360	420	ug/kg	370
Indeno (1,2,3-cd) pyrene	750	ug/kg	700	160 J	ug/kg	350	22	J ug/kg	360	260 J	ug/kg	370
Dibenzo (a,h) anthracene	190 J	ug/kg	700	52 J	ug/kg	350	360	U ug/kg	360	90 J	ug/kg	370
Benzo (g,h,i) perylene	1000	ug/kg	700	240 J	ug/kg	350	39	J ug/kg	360	350 J	ug/kg	370

SURFACE SOIL -- SEMIVOLATILES -- REQUEST NO. 10752

Lab	Sample	Number:
	•	Site
		Locator

Collect Date:

C1T21 CECILBRAC2 35S00401D 07-NOV-95 QUAL UNITS

C1T22 CECILBRAC2 35S00501 07-NOV-95 QUAL UNITS

C1T23 CECILBRAC2 35s00601 07-NOV-95 QUAL UNITS VALUE

C1T24 CECILBRAC2 35s00701 07-NOV-95 QUAL UNITS VALUE

P SEMIVOLATILES 90-SOW Phenol bis(2-Chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 2,2-oxybis(1-Chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate	730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
Phenol Dis(2-Chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 2,2-oxybis(1-Chloropropane) 4-Methylphenol Nitroso-di-n-propylamine 4-Exachloroethane 8-Introbenzene 1-Sophorone 2-Nitrophenol 2,4-Dimethylphenol 3,2-Dimethylphenol 3,2-Dimethylphenol 4,2-Trichlorophenol 4,2,4-Trichlorobenzene 8-Chloro-3-methylphenol 2-Methylnaphthalene 8-Exachlorocyclopentadiene 8-Chloro-3-methylphenol 2-Methylnaphthalene 8-Exachlorocyclopentadiene 9-(4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Chloronaphthalene 2-Chloronaphthalene 2-Chloronaphthalene	730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
bis(2-Chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 2,2-oxybis(1-Chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Chloronaphthalene	730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 2,2-oxybis(1-Chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene 1sophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene	730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 2,2-oxybis(1-Chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 2,2-oxybis(1-Chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Chloronaphthalene	730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 2,2-oxybis(1-Chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Chloronaphthalene	730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
2-Methylphenol 2,2-oxybis(1-Chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
2-Methylphenol 2,2-oxybis(1-Chloropropane) 4-Methylphenol 4-Methylphenol N:Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
2,2-oxybis(1-Chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Chloronaphthalene	730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360 360
N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U 730 U 730 U 730 U 730 U 730 U 730 U 666 J 730 U 730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg	350 350 350 350 350 350 350 350 350	360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U	ug/kg	360 360 360 360 360 360 360 360 360
Hexachloroethane Nitrobenzene Isophorone Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U 730 U 730 U 730 U 730 U 730 U 666 J 730 U 730 U 730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350 350 350 350 350	350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350 350 350 350	360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U	ug/kg	360 360 360 360 360 360 360 360
Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U 730 U 730 U 730 U 730 U 730 U 666 J 730 U 730 U 730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350 350 350 350	350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350 350 350	360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	360 360 360 360 360 360 360 360
Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U 730 U 730 U 730 U 730 U 66 J 730 U 730 U 730 U 730 U	ug/kg	730 730 730 730 730 730 730 730 730 730	350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350 350 350 350	350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350 350	360 U 360 U 360 U 360 U 360 U 360 U 360 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	360 360 360 360 360 360 360
2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U 730 U 730 U 730 U 730 U 730 U 730 U 730 U 730 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	730 730 730 730 730 730 730 730 730	350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350 350 350	350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350	360 U 360 U 360 U 360 U 360 U 360 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	360 360 360 360 360 360
2,4-Dimethylphenol bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U 730 U 730 U 66 J 730 U 730 U 730 U 730 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	730 730 730 730 730 730 730 730 730	350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350 350	350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350	360 U 360 U 360 U 360 U 360 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	360 360 360 360 360
bis(2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2-4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U 730 U 66 J 730 U 730 U 730 U 44 J	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	730 730 730 730 730 730 730 730	350 U 350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350 350	350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350	360 U 360 U 360 U 360 U	ug/kg ug/kg ug/kg ug/kg	360 360 360 360
2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U 66 J 730 U 730 U 730 U 744 J	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	730 730 730 730 730 730 730	350 U 350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg ug/kg	350 350 350 350 350	350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg	350 350 350 350	360 U 360 U 360 U 360 U	ug/kg ug/kg ug/kg ug/kg	360 360 360
1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Chloronaphthalene 2-Nitroaniline	730 U 66 J 730 U 730 U 730 U 44 J	ug/kg ug/kg ug/kg ug/kg ug/kg	730 730 730 730 730 730	350 U 350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg ug/kg	350 350 350 350	350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg	350 350 350	360 U 360 U	ug/kg ug/kg ug/kg	360 360
Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	66 J 730 U 730 U 730 U 44 J	ug/kg ug/kg ug/kg ug/kg	730 730 730 730 730	350 U 350 U 350 U 350 U	ug/kg ug/kg ug/kg	350 350 350	350 U 350 U 350 U	ug/kg ug/kg	350 350	360 U 360 U	ug/kg ug/kg	360 360
4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U 730 U 44 J	ug/kg ug/kg ug/kg	730 730 730	350 U 350 U 350 U	ug/kg ug/kg	350 350	350 U 350 U	ug/kg	350	360 U	ug/kg	360
Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	730 U 730 U 44 J	ug/kg ug/kg	730 730	350 U 350 U	ug/kg	350	350 U					
4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	730 U 44 J	ug/kg	<i>7</i> 30	350 U								
2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	44 J				49/ 5		350 U	ug/kg	350	360 U	ug/kg	360
Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline		ug/ Ng		350 U	ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360
2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	0.00	ug/kg	730	350 U	ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360
2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline	730 U		730 730	350 U	ug/kg ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360
2-Chloronaphthalene 2-Nitroaniline	1800 U	ug/kg	1800	850 U	ug/kg	850	860 U	ug/kg	860	870 U	ug/kg	870
2-Nitroaniline		ug/kg	730	350 U	ug/kg ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360
	730 U	ug/kg	1800	850 U		850	860 U	ug/kg ug/kg	860	870 U	ug/kg	870
Dimethylphthalate	1800 U	ug/kg			ug/kg	350	350 U	ug/kg ug/kg	350	360 U	ug/kg	360
	730 U	ug/kg	730	350 U	ug/kg	350	350 U		350 350	360 U	ug/kg	360
Acenaph thy lene	730 U	ug/kg	730	350 U	ug/kg			ug/kg		360 U		360
2,6-Dinitrotoluene	730 U	ug/kg	730	350 U	ug/kg	350	350 U	ug/kg	350 860	870 U	ug/kg ug/kg	870
3-Nitroaniline	1800 U	ug/kg	1800	850 U	ug/kg	850	860 U	ug/kg		360 U		360
Acenaphthene	200 J	ug/kg	730	350 U	ug/kg	350	53 J	ug/kg	350	360 U 870 U	ug/kg	870
2,4-Dinitrophenol	1800 U	ug/kg	1800	850 U	ug/kg	850	860 U	ug/kg	860		ug/kg	
4-Nitrophenol	1800 U	ug/kg	1800	850 ປ	ug/kg	850	860 U	ug/kg	860	870 U	ug/kg	870
Dibenzofuran	160 J	ug/kg	730	350 U	ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360
2,4-Dinitrotoluene	730 U	ug/kg	730	350 U	ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360
Diethylphthalate	730 U	ug/kg	730	350 U	ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360
4-Chlorophenyl-phenylether	730 U	ug/kg	730	350 U	ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360
Fluorene	220 J	ug/kg	730	350 U	ug/kg	350	41 J	ug/kg	350	360 U	ug/kg	360

Lab Sample Number: Site Locator Collect Date:	CEC1 359 07-	11721 LBRAC2 300401D NOV-95 AL UNITS	DL	3! 0	C1T22 CILBRAC2 5S00501 7-NOV-95 UAL UNITS	DL	CEC1 359 07-	11723 LBRAC2 500601 NOV-95 LL UNITS	DL	CEC: 35: 07-	C1T24 ILBRAC2 S00701 -NOV-95 AL UNITS	DL	
4-Nitroaniline	1800 U	ug/kg	1800	850 U	ug/kg	850	860 U	ug/kg	860	870 U	ug/kg	870	
4.6-Dinitro-2-methylphenal	1800 U	ug/kg	1800	850 U		850	860 U	ug/kg	860	870 U	ug/kg	870	
N-Nitrosodiphenylamine	730 U	ug/kg	730	350 U		350	350 U	ug/kg	<b>3</b> 50	360 U	ug/kg	360	
4-Bromophenyl-phenylether	730 U	ug/kg	730	350 U		350	350 U	ug/kg	350	360 U	ug/kg	360	
Hexachlorobenzene	730 U	ug/kg	730	350 U		350	350 U	ug/kg	350	360 U	ug/kg	360	
Pentachlorophenol	1800 U	ug/kg	1800	850 U		850	860 U	ug/kg	860	870 U	ug/kg	870	
Phenanthrene	2600	ug/kg	730	350 U		350	550	ug/kg	350	29 J	ug/kg	350	
Anthracene	740	ug/kg	730	350 U		350	72 J	ug/kg	350	360 U	ug/kg	360	
Carbazole	550 J	ug/kg	730	350 U	ug/kg	350	37 J	ug/kg	350	360 U	ug/kg	360	
Di-n-butylphthalate	40 J	ug/kg	730	68 J	ug/kg	350	350 U	ug/kg	350	35 J	ug/kg	<b>3</b> 50	
Fluoranthene	3000	ug/kg	730	350 U	ug/kg	350	520	ug/kg	350	180 J	ug/kg	350	
Pyrene	2100	ug/kg	730	350 U	ug/kg	350	370	ug/kg	350	170 J	ug/kg	350	
Butylbenzylphthalate	730 U	ug/kg	730	350 U	ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360	
3.3-Dichlorobenzidine	730 U	ug/kg	730	350 U	ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360	
Benzo (a) anthracene	1600	ug/kg	730	350 U	ug/kg	<b>3</b> 50	130 J	ug/kg	350	140 J	ug/kg	350	
Chrysene	1600	ug/kg	730	350 U	ug/kg	350	190 J	ug/kg	350	200 J	ug/kg	350	
bis(2-Ethylhexyl) phthalate	77 J	ug/kg	730	170 J	ug/kg	350	350 U	ug/kg	350	220 J	ug/kg	350	
Di-n-octylphthalate	730 บ	ug/kg	730	350 U	ug/kg	350	350 U	ug/kg	350	360 U	ug/kg	360	
Benzo (b) fluoranthene	2000	ug/kg	730	350 U	ug/kg	350	220 J	ug/kg	350	270 J	ug/kg	350	
Benzo (k) fluoranthene	860	ug/kg	730	350 U	ug/kg	350	80 J	ug/kg	350	99 J	ug/kg	350	
Benzo (a) pyrene	1500	ug/kg	730	350 U	ug/kg	350	180 J	ug/kg	350	200 J	ug/kg	350	
Indeno (1,2,3-cd) pyrene	830	ug/kg	730	350 U		350	110 J	ug/kg	350	180 J	ug/kg	350	
Dibenzo (a,h) anthracene	300 J	ug/kg	730	350 U	0. 0	350	44 J	ug/kg	350	49 J	ug/kg	350	
Benzo (g,h,i) perylene	1000	ug/kg	730	350 U	ug/kg	350	170 J	ug/kg	350	280 J	ug/kg	350	
Benzo (g,h,1) perylene	1000	ug/kg	730	350 0	ug/kg	350	170.3	ug/kg	330	200 3	ug/ kg	330	

U = NOT DETECTED J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED R = RESULT IS REJECTED AND UNUSABLE

Lab Sample Number: Site

Locator

C1T25 CECILBRAC2 35S00801 07-NOV-95

Collect Date:

/ALUE	QUAL	UNITS	DL

SEMIVOLATILES 90-SOW			
henol	350 U	ug/kg 350	
is(2-Chloroethyl) ether		ug/kg 350	
-Chlorophenol		ug/kg 350	
,3-Dichlorobenzene		ug/kg 350	
4-Dichlorobenzene	The state of the Control of the Cont	ug/kg 350	
,2-Dichlorobenzene		ug/kg 350	
-Methylphenol		ug/kg 350	
,2-oxybis(1-Chloropropane)		ug/kg 350	
-Methylphenol		ug/kg 350	
-Nitroso-di-n-propylamine	THE RESERVE OF THE PROPERTY OF THE PARTY OF	ug/kg 350	
exachloroethane		ug/kg 350	
itrobenzene		ug/kg 350	
sophorone		ug/kg 350	
-Nitrophenol	- 10000 No. 00000 0000 7 (7 (7 (000 000 000 000 000	ug/kg 350	
,4-Dimethylphenol		ug/kg 350	
is(2-Chloroethoxy) methane		ug/kg 350	
,4-Dichlorophenol		ug/kg 350	
,2,4-Trichlorobenzene	The state of the s	ug/kg 350	
aphthalene	Control of the Contro	ug/kg 350	
-Chloroaniline	A CONTRACTOR OF THE PROPERTY O	ug/kg 350	
exachlorobutadiene	The state of the s	ug/kg 350	
-Chloro-3-methylphenol		ug/kg 350	
-Methylnaphthalene		ug/kg 350	
exachlorocyclopentadiene		ug/kg 350	
,4,6-Trichlorophenol		ug/kg 350	
,4,5-Trichlorophenol		ug/kg 850	
-Chloronaphthalene	The second of the second contract of the seco	ug/kg 350	
-Nitroaniline	The state of the s	ug/kg 850	
imethylphthalate		ug/kg 350	
cenaphthylene		ug/kg 350	
,6-Dinitrotoluene	The state of the s	ug/kg 350	
-Nitroaniline	<ul> <li>Apple Ann. J. Math. Th. Turk State Str. 100, 100, 100</li> </ul>	ug/kg 850	
cenaph thene		ug/kg 350	
,4-Dinitrophenol		ug/kg 850	
-Nitrophenol	<ul> <li>Opening the second of the secon</li></ul>	ug/kg 850	
i benzo furan		ug/kg 350	
denzoturan .4-Dinitrotoluene		ug/kg 350 ug/kg 350	
		ug/kg 350	
iethylphthalate -Chlorophenyl-phenylether		ug/kg 350	
-chtorophenyt-phenytether luorene		ug/kg 350	
tuorene	590.0	dg/kg 550	

Lab Sample Number: Site Locator Collect Date:	C1T25 CECILBRAC2 35S00801 07-NOV-95 VALUE QUAL UNITS DL	
4-Nitroaniline 4,6-Dinitro-2-methylphenol N-Nitrosodiphenyl-phenylether Hexachlorophenol Phenanthrene Anthracene Carbazole Di-n-butylphthalate fluoranthene Pyrene Butylbenzylphthalate 3,3-Dichlorobenzidine Benzo (a) anthracene Chrysene bis(2-Ethylhexyl) phthalate Di-n-octylphthalate Benzo (b) fluoranthene Benzo (a) pyrene Indeno (1,2,3-cd) pyrene Dibenzo (a,h) anthracene Benzo (g,h,i) perylene	850 U ug/kg 850 850 U ug/kg 350 350 U ug/kg 350 350 U ug/kg 350 350 U ug/kg 350 850 U ug/kg 850 350 U ug/kg 350 34 J ug/kg 350 350 U ug/kg 350 34 J ug/kg 350 22 J ug/kg 350 350 U ug/kg 350	
U = NOT DETECTED J = ESTIM UJ = REPORTED QUANTITATION R = RESULT IS REJECTED AND	LIMIT IS QUALIFIED AS ESTIMATED	

SURFACE SOIL Benzo (a) pyrene REQUEST NO. 10756		SURFACE	SOIL		Benzo	(a)	pyrene		REQUEST	NO.	10756
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DL.

Lab Sample Number: Site

Site Locator Collect Date:

VALUE

C892D CECILBRAC3 35S00901 18-FEB-97

QUAL UNITS

DL

C892C CECILBRAC3 35501001 18-FEB-97 VALUE QUAL UNITS

C892A CECILBRAC3 35S01101 18-FEB-97 VALUE QUAL UNITS

VALUE

DL

CECILBRAC3 35S01201 18-FEB-97 QUAL UNITS DL

C8929

Benzo (a) pyrene 240 J ug/kg 360 62 J ug/kg 360 350 U ug/kg 350 1400 ug/kg 350

NAS CECIL FIELD -- FACILITY 177
SURFACE SOIL -- Benzo (a) pyrene -- REQUEST NO. 10756

Lab Sample Number: Site

Locator

C8929RE CECILBRAC3 35S01201RE 18-FEB-97 QUAL UNITS

Collect Date:

VALUE DL

	VALUE	QUAL UNITS	DL
Benzo (a) pyrene	1600	ug/kg	350
= NOT DETECTED	= FSTIMATED VALUE		
U = NOT DETECTED J UJ = REPORTED QUAN R = RESULT IS REJE	TITATION LIMIT IS CTED AND UNUSABLE	QUALIFIED AS	ESTIMATED

SURFACE SOIL -- PESTICIDES/PCBs -- REQUEST NO. 10753

L	ab Sample Number: Site Locator Collect Date:	:	C1T1N CCILBRAC2 S5S00101 07-NOV-95			C1T1 CECILBR 35S002 07-NOV	RAC2 201 V-95	N.		C1T1X CECILBRAC2 35S00301 07-NOV-95	D.	VALUE	CEC11 3580 07-1	1T20 _BRAC2 00401 10V-95	D.
		VALUE (	UAL UNITS	DL	VALUE	QUAL L	JNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAI	UNITS	DL
CLP PESTICIDES/PCBS 90-	SOW														
alpha-BHC		1.8 (	J ug/kg	1.8	8.	9 U L	ug/kg	8.9	3.7	U ug/kg	3.7	9.	4 U	ug/kg	9.4
beta-BHC		1.8 (		1.8	8.	9 U L	ug/kg	8.9	3.7	U ug/kg	3.7	9.	4 U	ug/kg	9.4
delta-BHC		1.8 (		1.8	8.	9 U u	ug/kg	8.9	3.7	U ug/kg	3.7	9.	4 U	ug/kg	9.4
gamma-BHC (Lindane)		1.8 (		1.8	8.	9 U L	ug/kg	8.9	3.7	U ug/kg	3.7	9.	4 U	ug/kg	9.4
Heptachlor		1.8 (		1.8	8.	9 U U	ug/kg	8.9	3.7	U ug/kg	3.7	9.	4 U	ug/kg	9.4
Aldrin		1.8 (	J ug/kg	1.8	8.	9 U u	ug/kg	8.9	.49	J ug/kg	4	9.	4 U	ug/kg	9.4
Heptachlor epoxide		1.8 (	J ug/kg	1.8	8.	9 U L	ug/kg	8.9	3.7	U ug/kg	3.7	9.	4 U	ug/kg	9.4
Endosulfan I		1.8 (		1.8	8.	9 U i	ug/kg	8.9	3.7	U ug/kg	3.7	9.	4 U	ug/kg	9.4
Dieldrin			l ug/kg	4	1	8 U U	ug/kg	18	7.3	U ug/kg	7.3		9 U	ug/kg	19
4,4-DDE		.17	l ug/kg	4	15	ί0 ι	ug/kg	18	7.3	U ug/kg	7,3			ug/kg	18
Endrin		3.6 (	J ug/kg	3.6	1	8υ ι	ug/kg	18	7.3	U ug/kg	7.3		9 U	ug/kg	19
Endosulfan II		3.6 (	J ug/kg	3.6	1	8 U L	ug/kg	18	7.3	U ug/kg	7.3		9 U	ug/kg	19
4.4-DDD		3.	l ug/kg	4	1	8 U U	ug/kg	18	7.3	U ug/kg	7.3		9 U	ug/kg	19
Endosulfan sulfate		3.6 (	J ug/kg	3.6	1	8 U L	ug/kg	18	7.3		7.3		9 U	ug/kg	19
4,4-DDT		4.3	ug/kg	4	17		ug/kg	18	7.3		7.3			ug/kg	18
Methoxychlor		18 ו	J ug/kg	18			ug/kg	89	37		37		4 U	ug/kg	94
Endrin ketone		3,6 (		3.6			ug/kg	18	7.3		7.3		9 U	ug/kg	19
Endrin aldehyde		3.6 (	J ug/kg	3.6	1	8 U L	ug/kg	18	7.3		7.3		9 U	ug/kg	19
alpha-Chlordane		1.8 (		1.8			ug/kg	8.9	3.7		3.7		4 U	ug/kg	9.4
gamma-Chlordane		1.8 ו		1.8			ug/kg	8.9	3.7		3.7		4 U	ug/kg	9.4
Toxaphene		180 เ		180			ug/kg	890	370		370		0 U	ug/kg	940
Aroclor-1016		36 I		36			ug/kg	180	73		73		0 U	ug/kg	190
Aroclor-1221		71 ו		71			ug/kg	360	150		150		O U	ug/kg	370
Aroclor-1232		36 (		36			ug/kg	180	73		<u>73</u>		0 U	ug/kg	190
Aroclor-1242		36 (		36			ug/kg	180		U ug/kg	73		0 U	ug/kg	190
Aroclor-1248	병 인계성	36 1		36			ug/kg	180		U ug/kg	73		0 0	ug/kg	190
Aroclor-1254		36 1		36			ug/kg	180		U ug/kg	73		0 U	ug/kg	190
Aroclor-1260		36 (	J ug/kg	36	18	10 U L	ug/kg	180	500	ug/kg	72	19	0 U	ug/kg	190

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- FACILITY 177
SURFACE SOIL -- PESTICIDES/PCBs -- REQUEST NO. 10753

	Sample Number: Site Locator Collect Date:	VALUE	C1T21 CECILBRAC2 35S00401D 07-NOV-95 QUAL UNITS	DL	VALUE	CEC1 358 07-	1T22 LBRAC2 00501 NOV-95 L UNITS	DL	VALUE	C1T2 CECILBR 35SOO0 07-NOV QUAL U	RAC2 601 V-95	DL	VALUE	3550 07-1	1T24 _BRAC2 D0701 NOV-95 _ UNITS	DL
P PESTICIDES/PCBS 90-SOW alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4-DDE Endrin Endosulfan II 4,4-DDD Endosulfan sulfate 4,4-DDT Methoxychlor Endrin ketone Endrin aldehyde alpha-Chlordane gamma-Chlordane Toxaphene Aroclor-1016 Aroclor-1221 Aroclor-1224 Aroclor-1248 Aroclor-1254 Aroclor-1260		3. 3. 3. 3. 3. 3. 3. 3. 7. 100 7. 7. 7. 7. 3. 3. 3. 3. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	U ug/kg U ug/kg U ug/kg U ug/kg	3.7 3.7 3.7 3.7 3.7 3.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7	1. 1. 1. 1. 3. 3. 3. 3. 3. 1. 1. 1. 1. 1. 3. 3. 3. 3. 3. 3. 3. 3. 1. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	8888885.7555518555880000000000000000000000000000	ug/kg	1.8 1.8 1.8 1.8 1.8 1.8 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	72 36 36 36 36		ug/kg	1.8 1.8 1.8 1.8 1.8 3.6 4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	1. 1. 1. 1. 1. 1. 3. 3. 3. 3. 3. 1. 1. 1. 1. 1. 1. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	6 U 6 U 6 U	ug/kg	1.8 1.8 1.8 1.8 1.8 1.8 1.8 3.6 3.6 3.6 3.6 1.8 1.8 1.8 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6
UJ = REPORTED	CTED J = ESTIMA QUANTITATION S REJECTED AND	LIMIT IS	E QUALIFIED AS	ESTIMATE	o											

#### NAS CECIL FIELD -- FACILITY 177 SURFACE SOIL -- PESTICIDES/PCBs -- REQUEST NO. 10753

Lab Sample Number: Site C1T25

Locator Collect Date: CECILBRAC2 35S00801 07-NOV-95

VALUE QUAL UNITS DL

CLP PESTICIDES/PCBS 90-SOW alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4-DDE Endrin Endosulfan II 4,4-DDD Endosulfan sulfate 4,4-DDT Methoxychlor Endrin ketone	1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 3.5 U 3.5 U 1.2 J 3.5 U 4.5 3.5 U 4.5	ug/kg	1.8 1.8 1.8 1.8 1.8 2 1.8 3.5 4 3.5 4 3.5 1.8 3.5
Endrin aldehyde alpha-Chlordane gamma-Chlordane Toxaphene Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	3.5 U 9.2 9.1 180 U 35 U 71 U 35 U 35 U 35 U 35 U 35 U	ug/kg	3,5 2 2 180 35 71 35 35 35 35 35
U = NOT DETECTED J = 1 UJ = REPORTED QUANTITA R = RESULT IS REJECTED	ATION LIMIT IS QUAL	IFIED AS E	STIMATED

Lab Sample Number: Site Locator Collect Date:	CEC 359 07	C1T1N ILBRAC2 S00101 -NOV-95 AL UNITS	DL	VALUE	C1T1V CECILBRAC2 35S00201 07-NOV-95 QUAL UNITS	DL	VALUE	C1T1X CECILBRAC2 35S00301 07-NOV-95 QUAL UNITS	DL	3	C1T20 CILBRAC2 5S00401 7-NOV-95 UAL UNITS	DL
CLP METALS AND CYANIDE Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc Cyanide	5080 .86 U .64 U 23.8 J .21 U .52 J 88900 11 .52 S 1060 J 79.2 .11 U 3 J 297 J .86 U .21 U 214 J .64 U 6.4 J 90.2 .48 J	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	40 12 2 40 1 1 1000 2 10 .6 1000 3 .1 1 8 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 10	2780 .86 .64 88.5 .21 24700 4.2 .21 2.3 276 610.5 230 7.2 .11 .93 .24 .86 .21 158 .64 2.7 16.8	U mg/kg J mg/kg mg/kg J mg/kg U mg/kg J mg/kg U mg/kg U mg/kg U mg/kg U mg/kg U mg/kg U mg/kg	40 12 2 40 1 1 1000 2 1000 3 .1 8 1000 2 1000 2 1000 4 .5	.77 16.5 .27 .2444 3.8 .27 .519 .67 .87. 3.1 .23188 .44 .17 .66 .218.	B U mg/kg 2 J mg/kg 2 J mg/kg 2 U mg/kg 2 U mg/kg 6 mg/kg 8 mg/kg 8 mg/kg 9 mg/kg 1 J mg/kg	40 12 2 40 1 1 1000 2 10 .6 1000 3 .1 1 2 1000 2 10 4 .5	.9 U .67 U .22 U .22 U .7000 9.5 .88 J 4.8 J 1430 17.9 303 J 12.5 .11 U 2.7 J 212 J .9 U	mg/kg	40 12 2 40 1 1 1000 2 1000 3 .1 8 1000 1 2 1000 2 10 4 .5

Antimony  Antimony  Antimony  Antimony  Antimony  Antimony  Arsenic  1.2 J mg/kg 2 .64 U mg/kg 2 .65 U mg/kg 4 0 .6.6 J mg/kg 4 1 .22 U mg/kg 4 2 .5.5 mg/kg 5 .61 J mg/kg 5 .65 J mg/kg 6 .6 12.1 mg/kg 6 Magnesium 6 417 J mg/kg 7 3 11.7 mg/kg 8 1.6 J mg/kg 8	Lab Sample Number: Site Locator Collect Date:	CEC 35 07	C1T21 ILBRAC2 S00401D -NOV-95 AL UNITS	DL	3! 0	C1T22 CILBRAC2 5S00501 7-NOV-95 JAL UNITS	DL	VALUE	C1T23 CECILBRAC2 35S00601 07-NOV-95 QUAL UNITS	DL	3 0	C1T24 CILBRAC2 55S00701 07-NOV-95 NUAL UNITS	DL
Selenium       .89 U mg/kg       1       .85 U mg/kg       1       .86 U mg/kg       1       .87 U mg/kg       1         Silver       .22 U mg/kg       2       .21 U mg/kg       2       .22 U mg/kg       2       .22 U mg/kg       2         Sodium       235 J mg/kg       1000       144 J mg/kg       1000       168 J mg/kg       1000       154 J mg/kg       1000         Thallium       .67 U mg/kg       2       .64 U mg/kg       2       .65 U mg/kg       2       .65 U mg/kg       2         Vanadium       8 J mg/kg       10       1.5 J mg/kg       10       2.4 J mg/kg       10       2.9 J mg/kg       10	Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	.89 U 1.2 J 27.6 J .22 U .22 U 16700 14 1.5 J 6 2210 26.2 417 J 17 .11 U 3.6 J 414 J .89 U .22 U 235 J .67 U 8 J 29.8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	12 2 40 1 1 1000 2 10 .6 1000 3 .1 8 1000 1 2 1000 2 1000 1	.85 U .64 U 21.6 J .21 U 5230 2.1 .21 J .61 J 225 9.3 711 J 11.7 U 1.2 J 55.5 J .85 U .21 U 1.44 J .64 U	mg/kg	12 2 40 1 1 1000 2 10 5 20 .6 1000 3 .1 8 1000 1 2 1000 2	.86 .65 3.3 .22 .22 11400 4.8 .22 .56 .250 2.7 117 2.1 .11 .11 .22.6 .86 .22 .168 .65 .65	U mg/kg U mg/kg U mg/kg U mg/kg U mg/kg J mg/kg J mg/kg J mg/kg U mg/kg	12 2 40 1 1 1000 2 10 5 20 .6 1000 3 .1 1 2 1000 2 1000 2	.87 L .65 L 6.6 L .22 L .22 L 5700 5.5 .22 L .25 J 12.1 1.6 J .87 L .87 L .87 L .87 L .22 L	mg/kg	40 1 1 1000 2 10 5 20 .6 1000 3 .1 8 1000 1 2 1000 2

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

Lab Sample Number:

Site

C1T25 CECILBRAC2 35800801

Locator Collect Date:

07-NOV-95 VALUE

QUAL UNITS DL

P METALS AND CYANIDE	2502		40
Aluminum	2580 .85 U	mg/kg	40 12
Antimony	.64 U	mg/kg mg/kg	12
Arsenic	10.5 J	mg/kg	40
Barium Beryllium	.21 U	mg/kg	1
seryttian Cadmium	.68 J	mg/kg	1
Calcium	53700	mg/kg	1000
Sarerum Shromium	5.8	mg/kg	2
Cobalt	.59 J	mg/kg	10
Copper	5.9	mg/kg	5
Iron	1140	mg/kg	20
ead	23.4	mg/kg	.6
Magnesium	585 J	mg/kg	1000
Manganese	24.4	mg/kg	3
Mercury	,11 U	mg/kg	.1
Nickel	1.6 J	mg/kg	8
Potassium	212 J	mg/kg	1000
Selenium	.85 U	mg/kg	1
Silver	.21 U	mg/kg	
Sodium	190 J	mg/kg	1000
Thallium	.64 U	mg/kg	. 2
Vanadium	4 J	mg/kg	10
Zinc	52.7	mg/kg	.5
Cyanide	ں 11.	mg/kg	

SURFACE SOIL -- Arsenic -- REQUEST NO. 10757

Lab Sample Number: Site Locator

Collect Date:

C892G CECILBRAC3 35801301 19-FEB-97

QUAL UNITS

VALUE

C892H CECILBRAC3 35801401 19-FEB-97 QUAL UNITS

C892J CECILBRAC3 35801501 19-FEB-97 QUAL UNITS

C892K CECILBRAC3 35801601 19-FEB-97 QUAL UNITS VALUE

.43 U mg/kg

VALUE

DL

.44 U

VALUE

DL

mg/kg

DL

DL

.44 U .44 U mg/kg 2 Arsenic mg/kg

SURFACE SOIL -- Arsenic -- REQUEST NO. 10757

Lab	Sample	Number:
	•	Site
		Locator

Locator Collect Date:

C892M CECILBRAC3 35801701 19-FEB-97 VALUE QUAL UNITS

DL

C892N CECILBRAC3 35s01801 19-FEB-97 VALUE QUAL UNITS

C892Q CECILBRAC3 35s01901 19-FEB-97 QUAL UNITS VALUE

DL

C892R CECILBRAC3 35s02001 19-FEB-97 VALUE QUAL UNITS

DL

.59 J mg/kg 2 .43 U mg/kg .43 U mg/kg .43 U mg/kg Arsenic

NAS CECIL FIELD -- FACILITY 177 SURFACE SOIL -- TPH -- REQUEST NO. 10755

Lab Sample Number: Site Locator

Collect Date:

A5K0801280 CECILBRAC2 35S00101 07-NOV-95

QUAL UNITS

A5K0801280 CECILBRAC2 35S00201 07-NOV-95 VALUE QUAL UNITS

A5K0801280 CECILBRAC2 35S00301 07-NOV-95 QUAL UNITS A5K0801280 CECILBRAC2 35S00401 07-NOV-95 VALUE QUAL UNITS

TPH Total petroleum hydrocarbons

1400

VALUE

mg/kg

110

DL

81

mg/kg

11

DL

VALUE

mg/kg

38

11

DL

mg/kg

11

DL

NAS CECIL FIELD -- FACILITY 177 SURFACE SOIL -- TPH -- REQUEST NO. 10755

Lab Sample Number: Site Locator Collect Date: A5K0801280 CECILBRAC2 35S00401D 07-NOV-95

QUAL UNITS

A5K0801280 CECILBRAC2 35S00501 07-NOV-95 VALUE QUAL UNITS

A5K0801280 CECILBRAC2 35S00601 07-NOV-95 QUAL UNITS A5K0801280 CECILBRAC2 35S00701 07-NOV-95 VALUE QUAL UNITS

UNITS DL

TPH Total petroleum hydrocarbons

120

VALUE

m

mg/kg

11

DL

mg/kg

57

11

DL

27

VALUE

mg/kg

j......

DL

11

48

mg/kg

11

NAS CECIL FIELD -- FACILITY 177 SURFACE SOIL -- TPH -- REQUEST NO. 10755

Lab Sample Number: Site Locator A5K0801280 CECILBRAC2 35S00801 07-NOV-95 A7B2101690 CECILBRAC3 35S00901 18-FEB-97 QUAL UNITS

Collect Date: VALUE

UE QUAL UNITS

VALUE

270

DL

PH Total petroleum hydrocarbons

280 mg/kg

21

DL

mg/kg

21